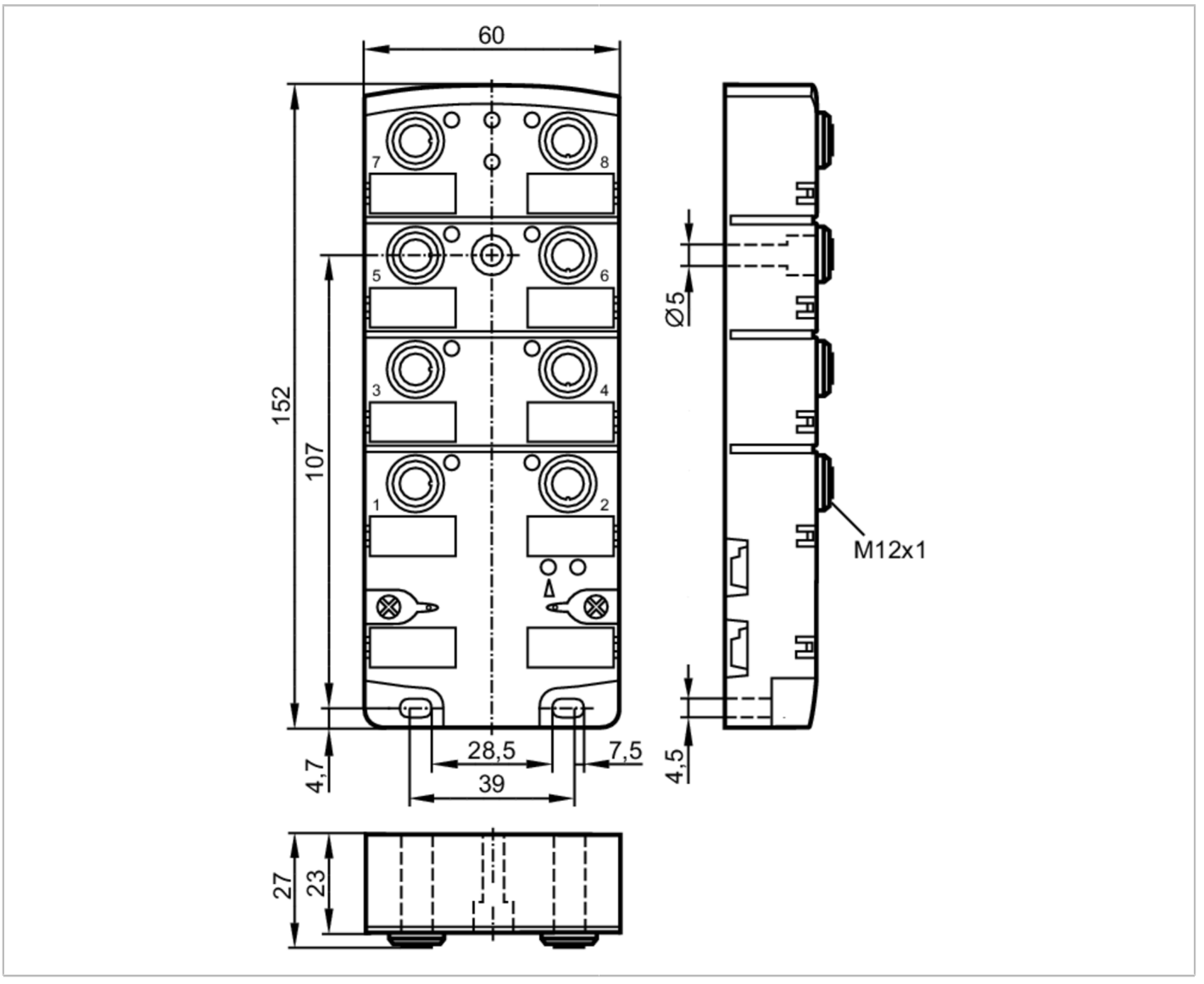
AC2471

AS-Interface CompactLine module

CompactM12 4DI-Y 4DO



Application		
Design		only for operation with AS-i masters with the profile M4
Application		field installation
Electrical data		
Operating voltage	[V]	26.5...31.6 DC
Max. current consumption from AS-i	[mA]	250
Max. current load total	[A]	4
Additional voltage supply	[V]	10...30 DC; (AUX)
Max. current consumption from additional supply	[mA]	4000; (AUX)
Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital inputs: 4; Number of digital outputs: 4

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Inputs			
Number of digital inputs		4	
Input circuit of digital inputs		PNP; (type 2 according to IEC 61131-2)	
Sensor supply of the inputs		AS-i	
Power supply	[V]	20...30; (DC)	
Max. total current rating of inputs	[mA]	200	
Input current limitation	[mA]	15	
Input current High	[mA]	6...10	
Input current Low	[mA]	0...2	
Switching level high	[V]	> 11	
Digital inputs protected against short circuits		yes	
Outputs			
Number of digital outputs		4	
Circuit		PNP	
Voltage range DC	[V]	10...30; (AUX)	
Max. current load per output	[mA]	2000; (utilisation category DC-13 (control of electromagnets): 20 W (IEC 60947-5-1))	
Max. current load outputs total	[A]	4	
Short-circuit proof		yes	
Electrically separated		yes	
Actuator supply outputs		AUX	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Storage temperature	[°C]	-25...80	
Max. relative air humidity	[%]	90; (non condensing)	
Max. height above sea level	[m]	2000	
Protection		IP 67; (when flat cables are used E7400x / E7401x)	
Tests / approvals			
EMC		EN 61000-6-2	
		EN 62026-2	
		EN 50581	
MTTF	[years]	190	
UL approval		power supply	Class 2
AS-i classification			
AS-i version		3.0	
AS-i addressing		IR addressing possible	
Extended addressing mode		yes	
AS-i master profile		M4	
AS-i profile		S-7.A.7	
AS-i I/O configuration	[hex]	7	
AS-i ID code	[hex]	A.7	
AS-i certificate		97001	

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Assignment of the data bits	data bit	D0	D1	D2	D3
	input	1	2	3	4
	socket	I-1/2	I-1/2 / I-2	I-3/4	I-3/4 / I-4
	pin	4	2 4	4	2 4
	Output	1	2	3	4
	socket	O-1	O-2	O-3	O-4
	pin	4	4	4	4

Mechanical data

Weight	[g]	379
Type of mounting		AS-i flat cables directly connectable
Materials		PA; socket: brass nickel-plated; threaded inserts in the lower part: brass nickel-plated; O-ring: FKM; piercing contacts: CuSn6 nickel-plated and tin-plated

Displays / operating elements

Display	switching status	LED, yellow I1...I4, O1...O4
	operation	LED, green AS-i, AUX
	errors	LED, red

Electrical connection

Module connection	Flat cables

Accessories

Items supplied	stainless steel sleeve for installation in case of high mechanical stress , E70402

Remarks

Remarks	Do not connect any of the following points to an external potential:
	I-, I+, I1, I2, I3, I4
	The connections are electrically connected with the AS-i cable.
Pack quantity	1 pcs.

Electrical connection - Inputs

Connection

Connector: M12

	Inputs
1	Sensor supply +
2	data input
3	Sensor supply -
4	data input
5	functional earth (FE)

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Electrical connection - Outputs

Connector: M12; coding: A

	Outputs
3	external voltage AUX -
4	switching output
5	functional earth (FE)
1, 2	not used